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## Raspberry Pi Fixing Sound On Kali Linux

Hello readers,

Some of you have been tinkering with Raspberry Pi3 and undoubtedly a few of you experienced the issues on Kali On Pi3 On HDMI. This is also the case with Ubuntu Mate on Raspberri Pi3 - and perhaps related to Armbian on Tinkerboard, but will require investigation and testing to confirm. The issue is a sound module not loading for HDMI. Our investigation found a few fixes, and again these may apply to other OS on similar platforms.

Fix 1 Configuration for Boot as seen on <http://sdatic.com/kali-linux-config-txt-on-raspberry-pi/>  
\*Thanks to them for finding this fix!

Details: Using vim, or in my case geany, load the blank configuration file and add the one from Raspbian.

```
apt-get install geany
```

```
cd /boot
```

```
geany config.txt
```

Paste and modify according to your needs:

```
# For more options and information see
# http://www.raspberrypi.org/documentation/configuration/config-txt.md
# Some settings may impact device functionality. See link above for details
```

```
# uncomment if you get no picture on HDMI for a default "safe" mode
#hdmi_safe=1
```

```
# uncomment this if your display has a black border of unused pixels visible
# and your display can output without overscan
#disable_overscan=1
```

```
# uncomment the following to adjust overscan. Use positive numbers if console
# goes off screen, and negative if there is too much border
```

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```
#overscan_left=16
#overscan_right=16
#overscan_top=16
#overscan_bottom=16

# uncomment to force a console size. By default it will be display's size minus
# overscan.
#framebuffer_width=1280
#framebuffer_height=720

# uncomment if hdmi display is not detected and composite is being output
#hdmi_force_hotplug=1

# uncomment to force a specific HDMI mode (this will force VGA)
#hdmi_group=1
#hdmi_mode=1

# uncomment to force a HDMI mode rather than DVI. This can make audio work in
# DMT (computer monitor) modes
#hdmi_drive=2

# uncomment to increase signal to HDMI, if you have interference, blanking, or
# no display
#config_hdmi_boost=4

# uncomment for composite PAL
#sdtv_mode=2

#uncomment to overclock the arm. 700 MHz is the default.
#arm_freq=800

# Uncomment some or all of these to enable the optional hardware interfaces
#dtparam=i2c_arm=on
#dtparam=i2s=on
#dtparam=spi=on

# Uncomment this to enable the lirc-rpi module
#dtoverlay=lirc-rpi

# Additional overlays and parameters are documented /boot/overlays/README

# Enable audio (loads snd_bcm2835)
dtparam=audio=on

----end----
```

Reboot and the changes will take effect. In some instances the sound fixes will require tweaking, one fix was to add kmix. This fixes the pulseaudio server issue, but may be doable other ways. To configure with kmix I opened a youtube video, turned volume down, and opened

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kmix to adjust volume. \*I also in the above config uncommented the hdmi force line, which was hdmi\_drive=2.

apt-get install kmix

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